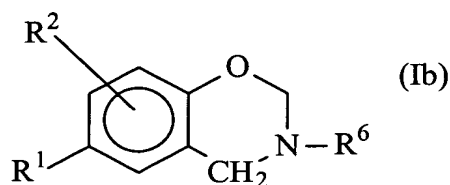
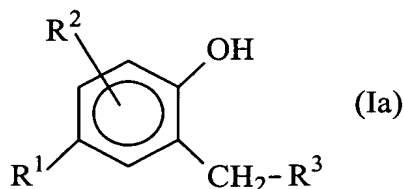


2. (Amended) The process as claimed in claim 1, wherein the amine is 3-(dimethylamino)-n-propylamine, di[3-(dimethylamino)-n-propyl]amine, dimethylamine, diethylamine, di-n-propylamine or morpholine.

3. (Amended) The process as claimed in claim 1, wherein, in step c), the adduct is an amination of formaldehyde with a secondary amine selected from the group consisting of di-C₁-C₈-alkylamines whose alkyl groups may be substituted by an N(C₁-C₄-alkyl)₂ group and cyclic amines which have 4 to 6 carbon atoms and whose cyclic structure may be interrupted by O and/or N-C₁-C₄-alkyl.

4. (Amended) The process as claimed in Claim 1, wherein an adduct mixture is obtained which comprises at least 40 mol% of compounds of the formula Ia and/or Ib,

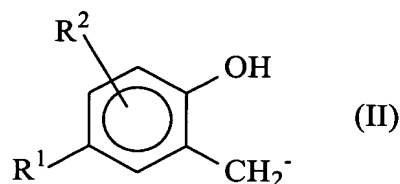


where

R¹ is a terminally bonded polyisobutenyl radical,

R² is H, C₁- to C₂₀-alkyl, C₁- to C₂₀-alkoxy, hydroxyl, a polyalkylenyl radical or CH₂NR⁴R⁵, where R⁴ and R⁵ have the meanings stated below, and

R³ is NR⁴R⁵, where R⁴ and R⁵, independently of one another, are H, C₁- to C₂₀-alkyl, C₃- to C₈-cycloalkyl and C₁- to C₂₀-alkoxy radicals which may be interrupted and/or substituted by N and O heteroatoms, and phenol radicals of the formula II



where R¹ and R² are as defined above;

with the proviso that R⁴ and R⁵ are not simultaneously H or phenol radicals of the formula II; or R⁴ and R⁵, together with the N atom to which they are bonded, form a 5-, 6- or 7-membered cyclic structure which has one or two N and O heteroatoms and may be substituted by one, two or three C₁- to C₆-alkyl radicals; and

R⁶ is a radical R⁴ or R⁵ other than H.

5. (Amended) The process as claimed in Claim 1, wherein a Mannich adduct having a polydispersity of from 1.1 to 3.5 is obtained.

6. (Amended) The process as claimed in Claim 1, wherein, in step c), the reaction product from a) is reacted with at least one adduct of amine and formaldehyde, an oligomer of formaldehyde, a polymer of formaldehyde or a formaldehyde equivalent by reacting the two reactants for at least 15 minutes at above +15°C to prepare the Mannich adduct.

7. (Amended) The process as claimed in Claim 1, wherein the reaction mixture from b) or c) is fractionated by column chromatography over an acidic stationary phase by multistage elution with

- at least one hydrocarbon and then
- at least one basic alcohol/water mixture.

8. (Amended) The process as claimed in claim 7, wherein the basic alcohol/water mixture is a mixture of

- A¹
- a) from 75 to 99.5% by weight of at least one C₂- to C₄-alcohol,
 - b) from 0.4 to 24.4% by weight of water, and
 - c) from 0.1 to 15% by weight of at least one amine which is volatile at room temperature.
-

9. (Amended) The process as claimed in Claim 1, wherein an adduct mixture obtained includes from 0 to 20 mol% of polyisobutenylphenols from reaction step a) which are not reacted further.

10. (Amended) A Mannich adduct obtained by

- A²
- a) alkylation of a phenol with polyisobutene having more than 70 mol % of vinylidene double bonds and a number average molecular weight of from 300 to 3000 at below about 50°C in the presence of an alkylation catalyst;
 - b) reaction of the reaction product from a) with formaldehyde, an oligomer or a polymer of formaldehyde and at least one amine which has at least one secondary amino function and no primary amino function.
-

A³

12. (Amended) An additive concentrate containing, in addition to conventional additive components, at least one Mannich adduct as claimed in claim 10 in amounts of from 0.1 to 99.9% by weight.

Please add the following new claims:

16. (New) A method of preparing a detergetized fuel or lubricant comprising mixing the Mannich adduct of Claim 10 with a fuel or a lubricant.

A⁴

17. (New) A method of preparing a detergetized gasoline or diesel fuel comprising mixing the Mannich adduct of Claim 10 with a gasoline or a diesel fuel.

18. (New) The process as claimed in Claim 1, wherein an adduct mixture obtained includes from 1-15 mol% of polyisobutenylphenols from reaction step a) which are not reacted further.

19. (New) An additive concentrate containing, in addition to conventional additive components, at least one Mannich adduct as claimed in Claim 10 in amounts of from 0.5-80% by weight.
